Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

ORGANIZED 1878 INCORPORATED 1891

MAY, 1902

# TRANSACTIONS OF THE AMERICAN MICROSCOPICAL SOCIETY

EDITED BY THE SECRETARY

TWENTY-FOURTH ANNUAL MEETING

HELD IN

DENVER, COLORADO,

AUGUST 29, 30 AND 31, 1901

VOLUME XXIII

# TRANSACTIONS

OF THE

# American Microscopical Society

ORGANIZED 1878 INCORPORATED 1891

---

EDITED BY THE SECRETARY

---

## Twenty-Fourth Annual Meeting

HELD IN

DENVER, COLORADO, AUGUST 29, 30, AND 31, 1901

---

VOLUME XXIII

---

LINCOLN, NEB.:
JACOB NORTH & CO., PRINTERS
1902

## OFFICERS FOR 1901–1902

*President:* CHARLES E. BESSEY ..... Lincoln, Neb.
*Vice-Presidents:* E. A. BIRGE ..... Madison, Wis.
JOHN ASPINWALL ..... New York City
*Secretary:* HENRY B. WARD ..... Lincoln, Neb.
*Treasurer:* J. C. SMITH ..... New Orleans, La.
*Custodian:* MAGNUS PFLAUM ..... Pittsburg, Pa.

### ELECTIVE MEMBERS OF THE EXECUTIVE COMMITTEE

A. M. HOLMES ..... Denver, Colo.
V. A. LATHAM ..... Chicago, Ill.
G. C. WHIPPLE ..... New York City

### EX-OFFICIO MEMBERS OF EXECUTIVE COMMITTEE

Past Presidents still retaining membership in the Society

R. H. WARD, M.D., F.R.M.S., of Troy, N. Y.,
at Indianapolis, Ind., 1878, and at Buffalo, N. Y., 1879.
H. L. SMITH, LL.D., of Geneva, N. Y.,
at Detroit, Mich., 1880, and at Cleveland, O., 1885.
J. D. HYATT, of New York City,
at Columbus, O., 1881.
ALBERT MCCALLA, Ph.D., of Fairfield, Ia.,
at Chicago, Ill., 1883.
T. J. BURRILL, Ph.D., of Champaign, Ill.,
at Chautauqua, N. Y., 1886.
GEO. E. FELL, M.D., F.R.M.S., of Buffalo, N. Y.,
at Detroit, Mich., 1890.
FRANK L. JAMES, Ph.D., M.D., of St. Louis, Mo.,
at Washington, D. C., 1891.
MARSHALL D. EWELL, M.D., of Chicago, Ill.,
at Rochester, N. Y., 1892.
SIMON HENRY GAGE, B.S., of Ithaca, N. Y.,
at Ithaca, N. Y., 1895.
A. CLIFFORD MERCER, M.D., F.R.M.S., of Syracuse, N. Y.,
at Pittsburg, Pa., 1896.
W. C. KRAUSS, M.D., of Buffalo, N. Y.,
at Columbus, O., 1899.
A. M. BLEILE, M.D., of Columbus, O.,
at New York City, 1900.
C. H. EIGENMANN, Ph.D., of Bloomington, Ind.,
at Denver, Colo., 1901.

The Society does not hold itself responsible for the opinions expressed by members in its published Proceedings unless endorsed by a special vote.

# TABLE OF CONTENTS

## FOR VOLUME XXIII


The Annual Address of the President, The Solution of the Eel Question, by Carl H. Eigenmann, with Plates I to IV ..... 5

The Debt of American Microscopy to Spencer and Tolles, by William C. Krauss, B.S., M.D., Buffalo, N. Y., with Plates V to IX ..... 19

A New Species of *Crenothrix* (*C. manganifera*), by D. D. Jackson, with Plate X ..... 31

Notes on Colorado Entomostraca, by Arthur E. Beardsley ..... 41

Notes on Colorado Protozoa with descriptions of new species, by Arthur E. Beardsley, with Plate XI ..... 49

The Plankton of Lake Maxinkuckee, Indiana, by Chancey Juday ..... 61

The Morphogenesis of the Stigmata and Stomata occurring in Peritoneal and Vascular Endothelium, by Arthur E. Hertzler, A.M., M.D., with Plates XII and XIII ..... 63

A Contribution to the Subterranean Fauna of Texas, by Carl Jost Ulrich, with Plates XIV to XVIII ..... 83

On the Amount of Oxygen and Carbonic Acid Dissolved in Natural Waters and the Effect of these Gases upon the Occurrence of Microscopic Organisms, by George C. Whipple and Horatio N. Parker, with Plates XIX to XXII ..... 103

The Structure and Classification of the Conjugatae with a revision of the families and a rearrangement of the North American genera, by Charles E. Bessey, Ph.D. ..... 145

On *Hymenolepis carioca* (Magalhaes) and *Hymenolepis megalops* (Nitzsch) with remarks on the classification of the group, by B. H. Ransom, with Plates XIII to XXV ..... 151

Studies on the Genus *Cittotaenia*, by Rufus Ashley Lyman, with Plates XXVI and XXVII ..... 173

Some Points in the Structure of the Acanthocephala, by H. W. Graybill, with Plate XXVIII ..... 191

The North American Species of *Curvipes*, by Robert H. Wolcott, with Plates XXIX to XXXIII ..... 201

A New Hydra, by M. J. Elrod ..... 257

Modification of some Standard Apparatus to facilitate the Work of the Histologic and Embryologic Laboratory, by Simon Henry Gage, with Plate XXXIV ..... 259

Laboratory Photographic Apparatus, by Simon Henry Gage, with Plates XXXV and XXXVI ..... 263

Report of the Spencer-Tolles Committee ..... 265

List of Subscribers to the Spencer-Tolles Fund ..... 267
Necrology, E. W. Claypole, with Plate ..... 269
Minutes of the Annual Meeting ..... 275
Treasurer's Report ..... 281
Custodian's Report, Spencer-Tolles Fund ..... 282
Constitution ..... 283
By-laws ..... 284
List of Members ..... 287
List of Subscribers ..... 294
Advertisements ..... I